US ERA ARCHIVE DOCUMENT

<b>,</b> .	Shaughnessy No.: 128201
To 120/86	Date Out of EAB: OCT 20 19
M 1 122/86	Signature:
10:	
Robert Taylor Product Manager # 25 Registration Division (TS-767)	
From:	
Emil Regelman, Supervisory Chemist Review Section #3 Exposure Assessment Branch Hazard Evaluation Division (TS-769)	Port of the second
Attached, please find the EAB review of	
Reg./File # :352-EUP - 112, 114, 115	franka kana mayaka atau atau kakingi angi atau atau atau yika ayin mana atika nyanay may madan akin ada anga a
Chemical Name:DPX-Y6202 Ethyl-2-[(4-(6-chlore	oquinoxalin-2-yloxy)phenoxy]
propanoate	
Type Product :Herbicide	
Product Name :Assure	
Company Name :E.I. duPont de Nemours	
Purpose : Registrants response to an E	AB review of a 1984 aerobic
soil metabolism study	
•	
ACTION CODE: 705;715	AB #(s) : 5948;5949;5950
Date Received: 9/24/85	AIS Code: 65
Date Completed: 10/17/86 To	otal Reviewing Time: 03 day
Monitoring study requested:	
Monitoring study voluntarily:	
Deferrals to: Ecological Effec	
Residue Chemistry Branch	

Toxicology Branch

CHEMICAL: DPX-Y6202

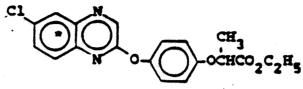
COMMON NAME: no common name

CHEMICAL NAME: Ethyl-2-[(4-(6-chloroquinoxalin-2-yloxy)phenoxy] propanoate

Trade Name:

Assure

Structure:



FORMULATIONS: 10% EC

- TEST MATERIAL: [14C quinoxaline] and [phenyl-14C] labeled DPX-Y6202
- STUDY ACTION TYPE: Registrant's response to EAB review of 1984 aerobic soil metabolism study to satisfy requirements for EUPs. (Fallow, Soybean, and Cotton)
- STUDY INDENTIFICATION: (Reviewed in EAB Action #5669 - 12/23/85)

Cadwan, G.E. and R.D. McFetridge. 1985. Aerobic soil metabolism of [phenyl-14C(U)] DPX-Y6202. E.I. duPont de Nemours and Co., Inc., Agri. Chemicals Div., Wilmington, DE , Report No. AMR-329-85; exhibit 46

REVIEWED BY: John Jordan Microbiologist

EAB/HED/OPP

APPROVED BY: Emil Regelman Supervisory Chemist Review Section # 3 EAB/HED/OPP

Signature

Signature:

20 Date:

## 7. CONCLUSIONS:

The 1984 aerobic soil metabolism study ( see Background ) by Cadwan-AMR-200-84 was unacceptable, however, the 1985 Cadwan study, AMR-329-85 (see Section 4) satisfied this requirement for silt loam and sandy loam soils.

The following data are still required to support the proposed EUPs: confined rotation crop, aerobic soil metabolism (on clay and clay loam soil types), and mobility/leaching (soil column) for major degradates on clay and clay loam soils.

The following additional data will be required for full registration of DPX-6202 for the proposed use sites:

Soil photolysis Anaerobic soil metabolism Volatility (lab).

Data may also be required to satisfy the following, depending on the results of the laboratory tests:

Field Crop Rotation Volatility (field).

## 8. RECOMMENDATIONS:

EAB cannot concur with the proposed EUPs on soybeans, cotton and fallow land at this time. Data must be submitted to address the deficiencies listed in the conclusion.

The unacceptable 1984 study may be withdrawn without prejudice.

## 9. BACKGROUND:

The following 1984 study is not acceptable. However, since the 1985 study in Section 4 meets aerobic soil metabolism requirements, it may be withdrawn without prejudice.

Cadwan, G.E. 1984. Aerobic Soil Metabolism of [ $^{14}$ C-quinoxaline-Labeled] DPX-Y6202. Doc. No. AMR-200-84, Rev. No. 1 (Co. Confidential), Res. Div. Agri. Chem. Dept., E.I. duPont de Nemours, 8/15/84. 15 pps., 10 tables, 19 figures. No references.

10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES: The 1985 Cadwan study had been previously reviewed on 12/23/85 (EAB # 5669) and found acceptable, and the current submission contained responses to deficiencies in the 1984 study which do not require consideration.

The acceptable 1985 Cadwan study described the aerobic degradation of DPX-6202 in a sandy loam and silt loam soil. It also contains a materials balance, a half-life estimate of about one week and a description of the major degradates formed. The major pathway of degradation is mineralization of the phenyl ring to  $\Omega_2$  which occurred after ten or more weeks of aging.

- 11. COMPLETION OF ONE-LINER: One-liner not completed as of this date.
- 12. CBI APPENDIX: The registrant considers the hard copy as CBI, therefore, it should be consider as confidential.